

Fig. 2

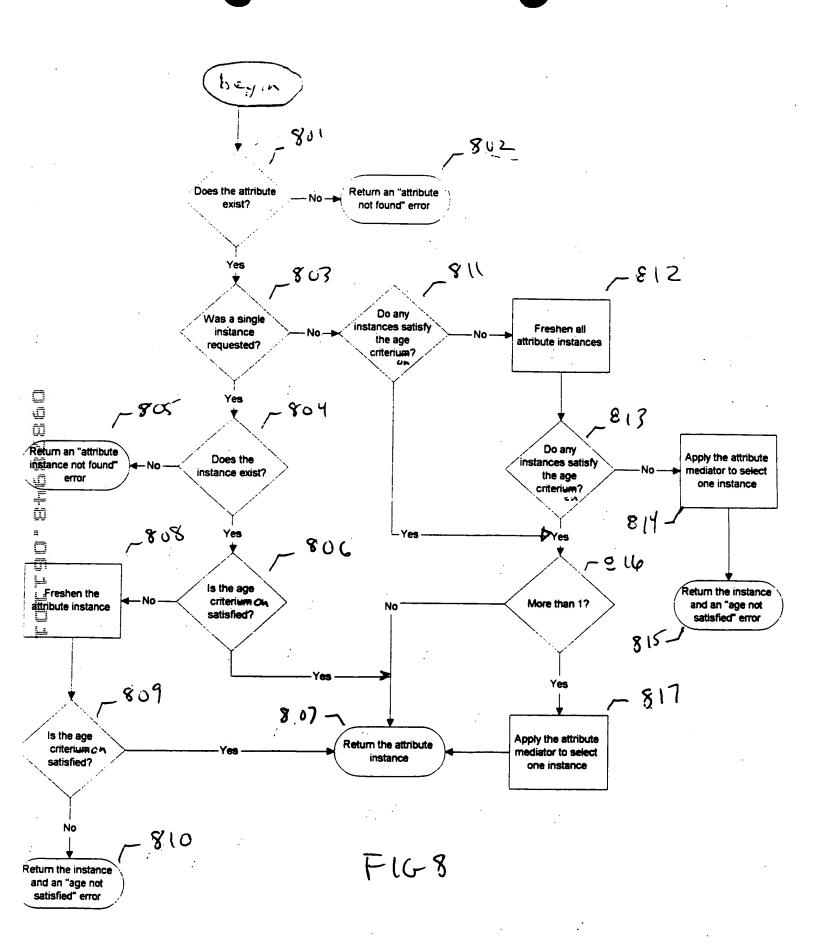
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		context client table	
	context client name	message handler	
700	location map	(reference)	
500	distance from home	(reference)	
	region analysis	(reference)	
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		FIG 6	

	-			1	J
	value	uncertainty	timestamp	units	number or
					context clients
					consuming
4	47° 38.73' N,	,60' 0	13:11:04.023	degrees/minutes	2
_	122° 18.43' W		2/22/2000		
1 4	47° 38.745' N,	0°.021'	13:11:01.118	degrees/minutes	2
	122° 18.424' W		2/22/2000		
	22	5.	13:11:01.118	meters	
	0		2/22/2000		
_	none	none	none	none	_

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			-			•	context server table	
	context server name		version	installation date	filename		request handler	
401	gps		/2	2/10/2000	gps.exe	(reference)	ence)	
402	ips		/2	2/21/2000	ips.exe	(reference)	ence)	
400	location region analysis	alysis 1	/2	2/10/2000	l r a.exe	(reference)	ence)	
<u>\$</u>		1411	LUD	٦	418	- 4/4 - 1		
		.	J	FIG 4		· •		
						٠		
						æ.		المحاد
						attr	attribute instance table	_
	attribute name	context server	value	uncertainty	timestamp	units	number of	
		name		-			context clients	
							consuming	
SOL	user location	gps	47° 38.73' N, 122° 18.43' W	,60°,0	13.11.04.023 2/22/2000	degrees/minutes	2	
778	user location	sdi	47° 38.745' N,	0°.021'	13:11:01.118	degrees/minutes	2	
\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	user elevation	ips	22	.5	13:11:01:118 2/22/2000	meters	-	
) des	user in region	location_region_ analysis	none	none	none	none	0	
•	ر ا	11 - 512	167	3 FIG 5	1812	1216	121	



atti ibute ilistarice table	number of context clients consuming	2	2		_	(181)
atti	units	degrees/minutes	degrees/minutes	meters	none	ع ا ا
	timestamp	13:11:04.023 2/22/2000	13:11:01.118 2/22/2000	13:11:06.565 2/22/2000	none	2167 2
	uncertainty	,60°,0	0°.021'	\$.	none	5 FIG 9
	value	47° 38.73' N, 122° 18.43' W	47° 38.745' N, 122° 18.424' W	22.25	none	C913
	context server name	Sd8	sdi	sdi	region analysis	7,67 11
	attribute name	user location	user.location	ușer elevation	user in region	167
		701	706	963	7	101

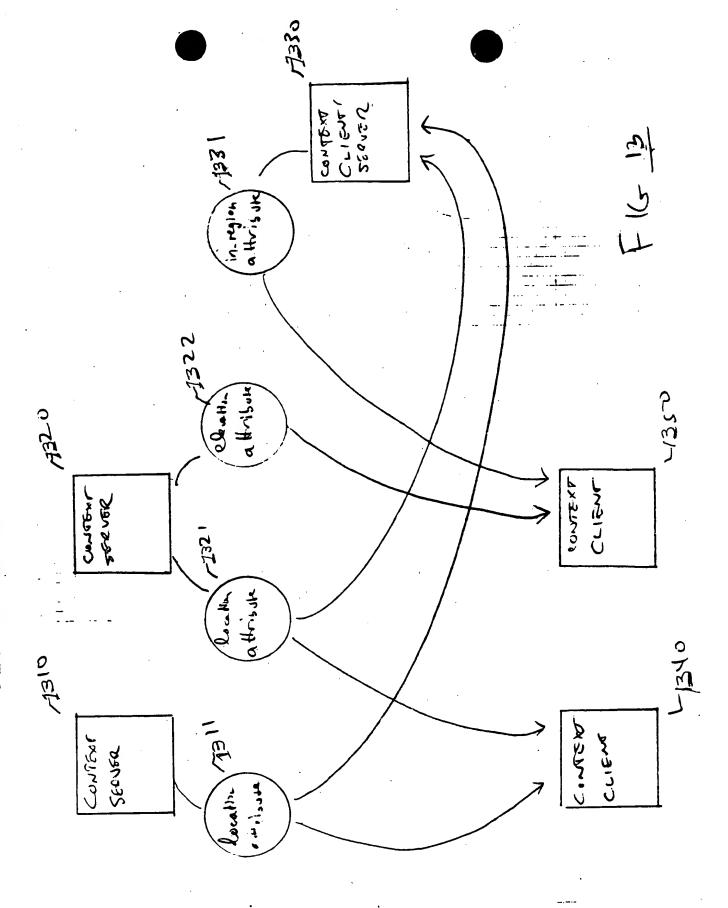
				•		condition table	
	condition name	context client name	first logical parameter	second logical parameter	comparison value	logical operator	
8	ool in region true	region analysis	user in region	none	TRUE	Į,	
-	101	0 -	2	13 L 1014 FIG 10	1 6151	١٠٥١٦	

							,		- ر
							condition	condition monitor table	
						condition last	andition last trioger handler	stopped	•
	condition	context client	condition	· behavior	rrequency	evaluated	reference		
	omen resident	name	name					0	
	IIIOIIIO Hains		aint noises ii	TRITE OF	30	13:11:29:101	(ובובובוורב)	2	
•	region bounda	region_analysi	region_bounda region_analysi in_region_unc			2/22/2000			
1	ry crossed	S		rALSE				SEJ	
	1	-		<u>-</u> ل	ム三ノ		\		
	<u>-</u> ل		1 2 7 7 1 1 -	15 FIG 11					
				1					

				9	0		
stopped		ves			9121 CI		
triooer handler	reference				(121)		· •-
Condition last		(reference)	13:11:39:101	2/22/2000	[]	15151	
	trequency		30			ニノ 「アフリー	J 12
	behavior		TRUE or	FALSE	11	デー 2121	
	condition	name	in region true	l) !	,	J	
	context client	name	region analysi	- C	S	(1)	_
	condition	monitor name	region bounds region analysi in region true TRUE or	Icgion Donner	D) _ ry crossed		727
					つる		

condition monitor table,

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attribute request table

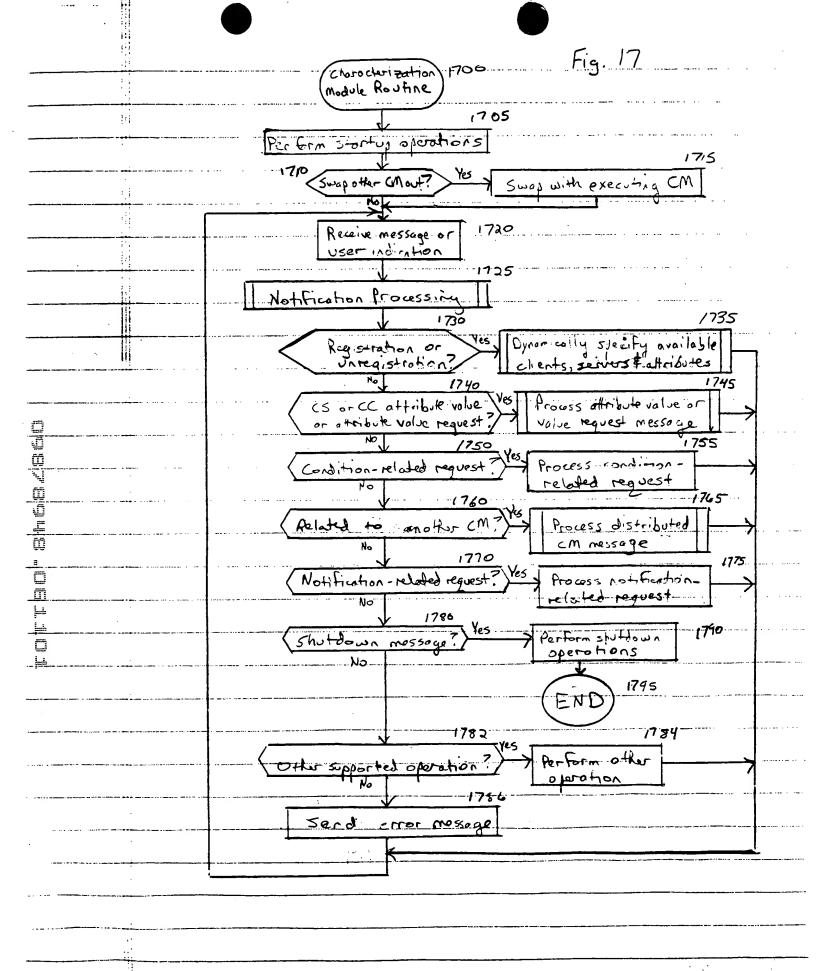
	attribute name	context client name	
1401 ~	user.location	distance_from_home	
1402 ~	user.in_region	location_map	
.4.3~	user.location [gps]	location_region_analysis	
ر ۱۰۰۰	user.location [gps] user.elevation	location_map	
1404	411	Figure 14 7 1412	

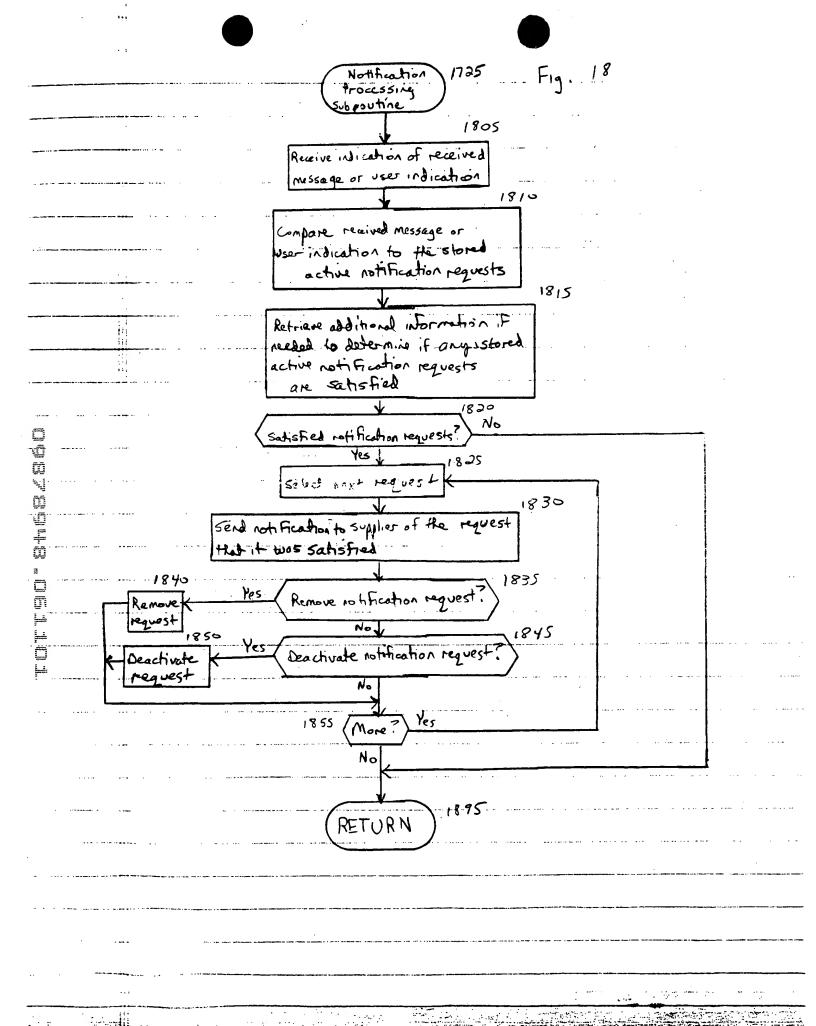
i e	
User.	Platform. (continued)
Desired privacy_level	CPU.
Interruptibility	Load Fig. 15
Speed	Speed
Direction	Memory.
Acceleration	Total_capacity
Availability.	Used
Cognitive_availability	Storage.
Tactile availability	Total_capacity
Manual availability	· Used
Visual_availability	Connectivity.
Oral availability	Connection_status
Auditory availability	Connection speed
Proximity. <item name="" or="" place=""></item>	Connection_type/device
Mood.	Connection activity
	Power.
Happiness	Power source
Sadness	Power level
Anger	Environment.
Frustration	People.
Confusion	Nearest
Activity.	Number_present
Driving	Number_close
Eating	_
Running	Local.
Sleeping	Time
Talking	Date
Typing	Temperature
Walking	Pressure
Location.	Wind_speed
Place_name	Wind_direction
Latitude	Absolute_humidity
Longitude	High_forecast_temperature
Altitude	Low_forecast_temperature
Room	People_present
Floor	Ambient_noise_level
Building	Ambient_light_level
Address	Days <pre>cprevious or future>.</pre>
Street	High_temperature
City	Low_temperature
County	Precipitation_type
State	Precipitation_amount
Country	Place. <place name="">. (same as Environment.Local)</place>
Postal_Code	Application.
Destination. (same as User.Location.)	Mail.
	Available
Physiology.	New messages_waiting
Pulse	Messages waiting to be sent
Body_temperature	Phone.
Blood_pressure	Available
Respiration	In_use
Person. <name id="" or="">. (same as User.)</name>	On/off
Platform.	Notification mechanism
UI.	Call incoming
Oral_input_device_availability	<u>-</u>
Manual_input_device_availability	Caller_ID
Tactile_output_device_availability	Sound_recorder.
Visual_output_device_availability	Available
Auditory_output_device_availability	Recording

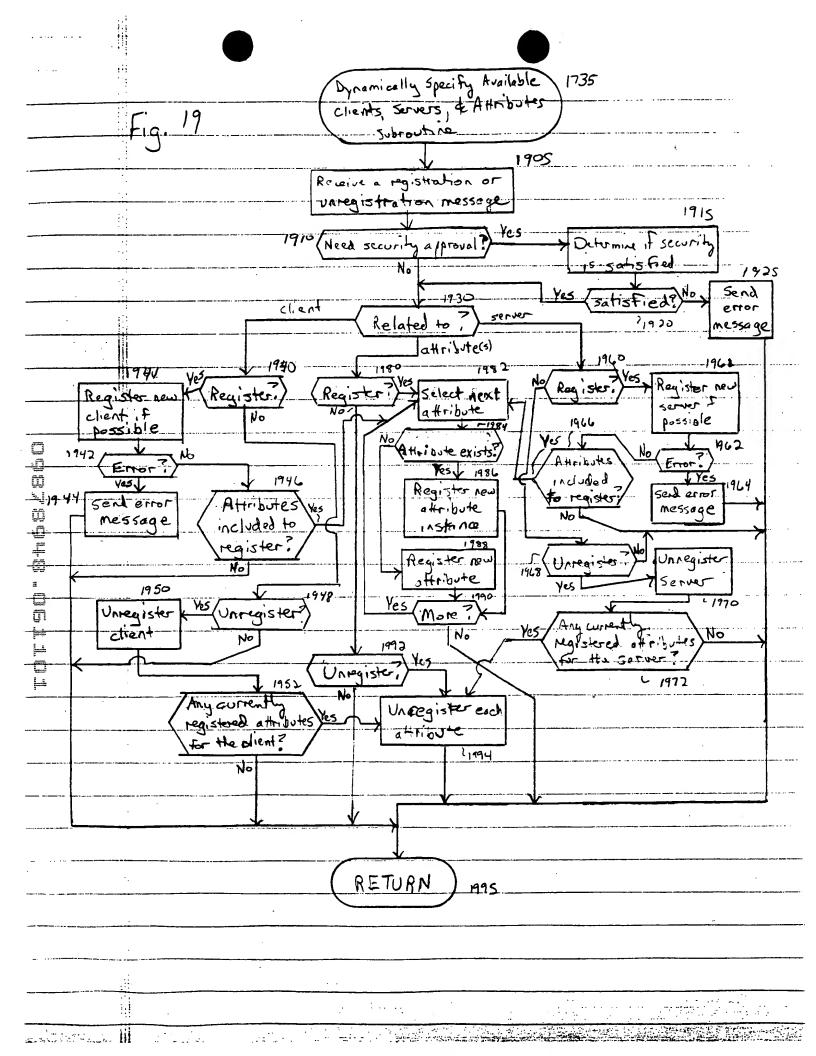
- 1) User Setting
 - a) Mental Context
 - i) Meaning
 - ii) Cognition
 - (1) Divided User Attention
 - (2) Task Switching
 - (3) Background Awareness
 - iii) Solitude
 - iv) Privacy
 - (1) Desired Privacy
 - (2) Perceived Privacy
 - v) Social Context
 - vi) Affect
 - b) Physical Situation
 - i) Body
 - (1) Biometrics
 - (2) Posture
 - (3) Motion
 - (4) Physical Encumberment
 - (a) Senses
 - (i) Eyes
 - (ii) Ears
 - (iii) Tactile
 - (iv) Hands
 - (v) Nose
 - (vi) Tongue
 - (b) Workload demands/effects
 - (c) Interaction with computer devices
 - (d) Interaction with people
 - (e) Physical Health
 - ii) Environment
 - (1) Time/Space
 - (2) Objects
 - (3) Persons
 - (a) Audience/Privacy Availability
 - (i) Scope of Disclosure
 - (ii) Hardware affinity for privacy
 - (iii) Privacy Indicator for User
 - (iv) Privacy Indicator for Public
 - (v) Watching Indicator
 - (vi) Being Observed Indicator
 - (4) Ambient Interference
 - (a) Visual
 - (b) Audio
 - (c) Tactile

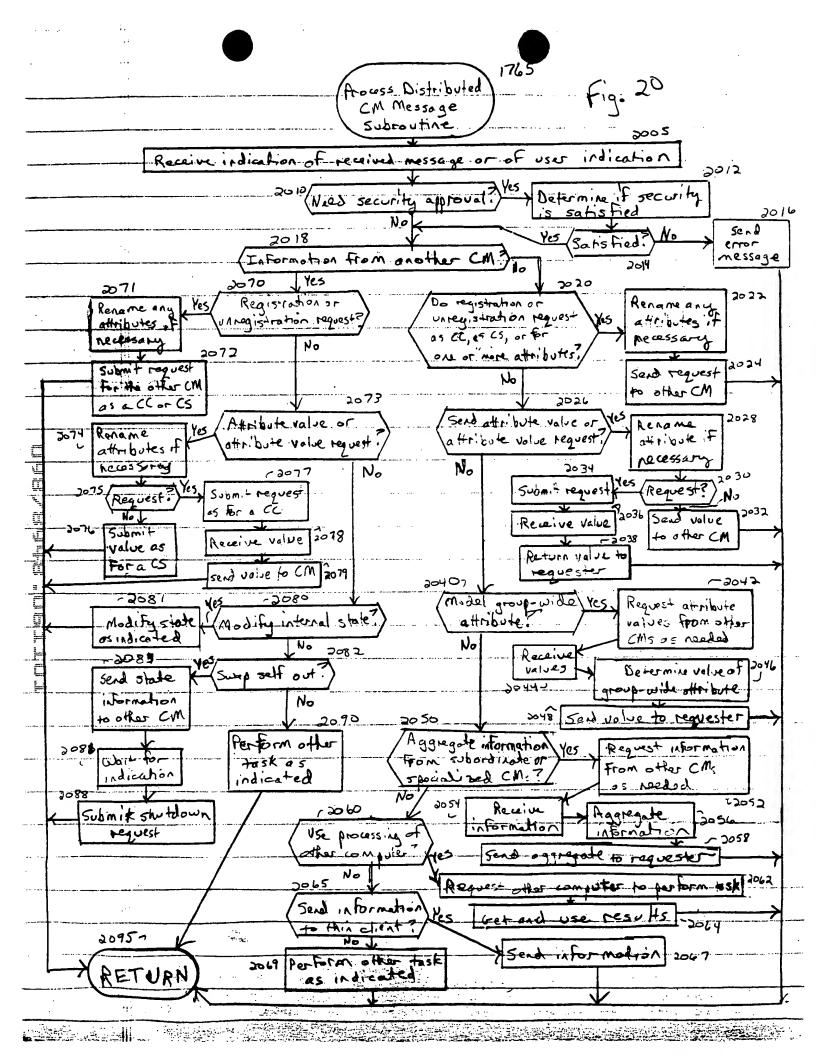
- 2) Computer
 - a) Power
 - b) Configuration
 - i) User Input Systems
 - (1) Hand/Haptic
 - (a) Keyboard/Keystrokes
 - (2) Voice/Audio
 - (3) Eye Tracking
 - (4) Cursors
 - (a) Axis
 - (b) Resolution
 - (i) Selection
 - (ii) Invocation
 - (c) Accelerators
 - ii) Output Systems
 - (1) Visual
 - (a) Resolution
 - (2) Audio
 - (a) Public/Private
 - (3) Haptic
 - iii) External Resources
 - (1) I/O devices
 - (2) Connectivity
 - c) Data
 - i) Quantity/State
 - ii) Urgency/Importance
 - (1) Use of Prominence
 - iii) Modality
 - iv) Sensitivity/Purpose
 - (1) Privacy Issues
 - (2) Use of Association
 - (3) Use of Safety
 - v) Source/Ownership
 - (1) Types
 - (a) User generated
 - (b) Other computers or people
 - (c) Sensor
 - (d) PC State
 - (2) Use of Association

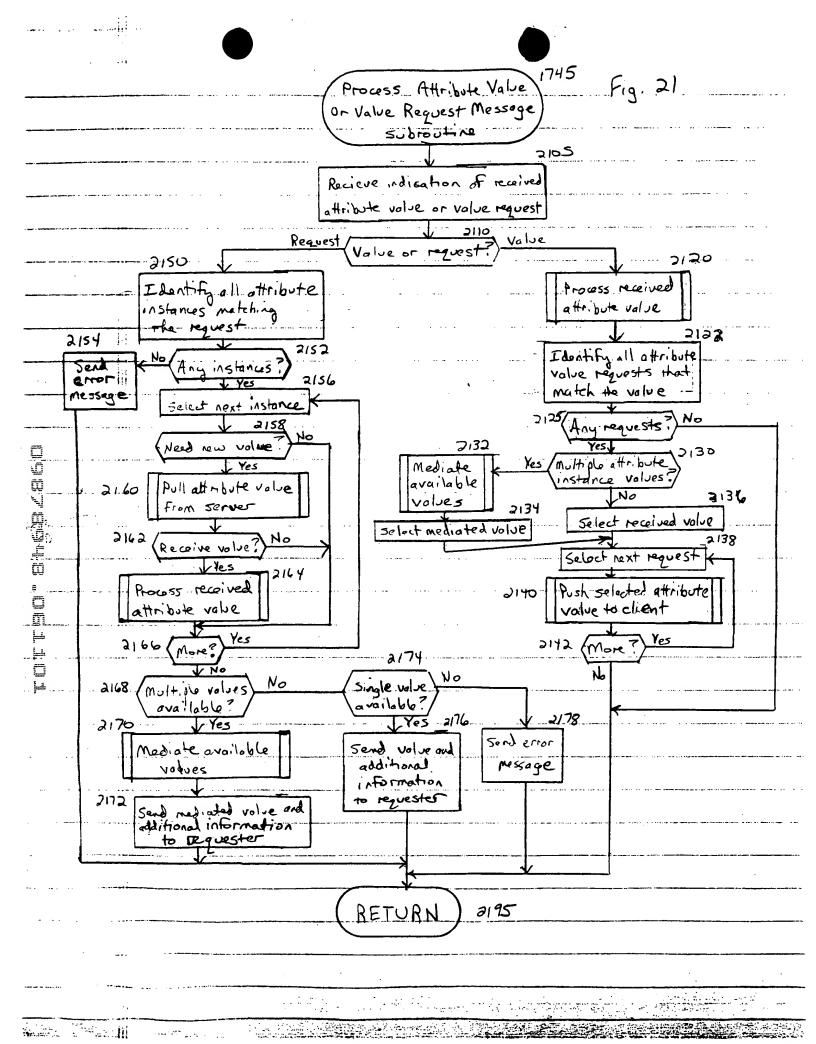
Fig. 16

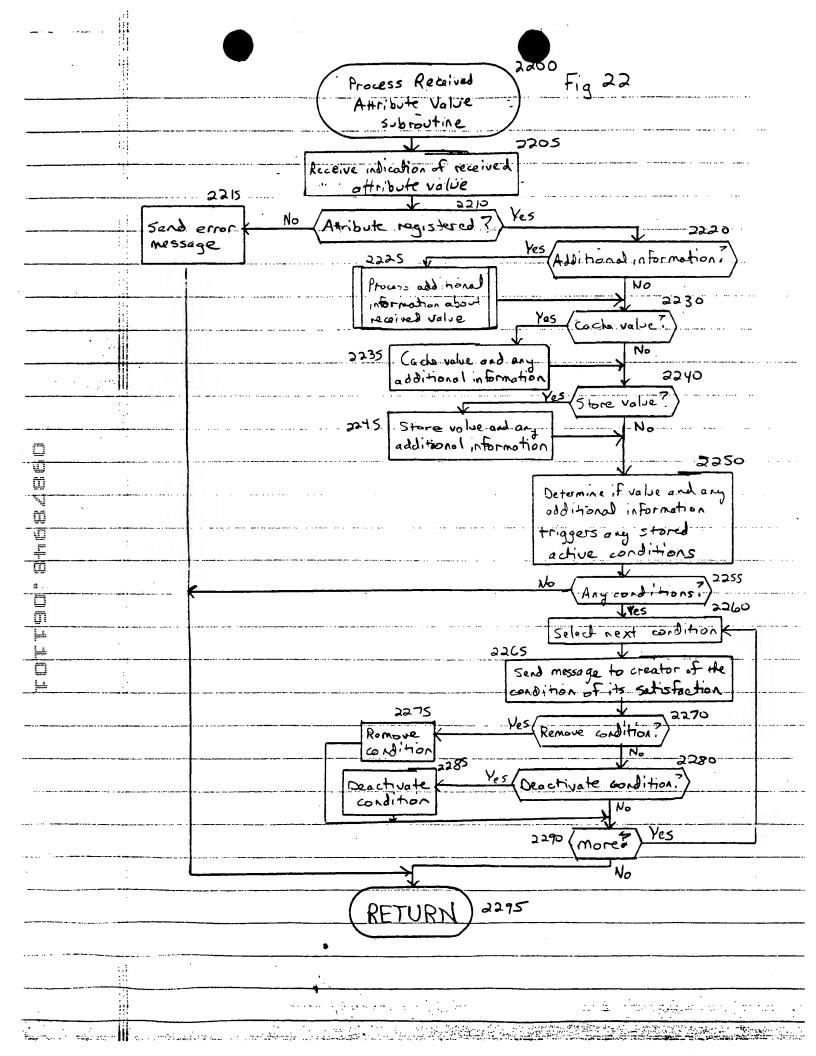


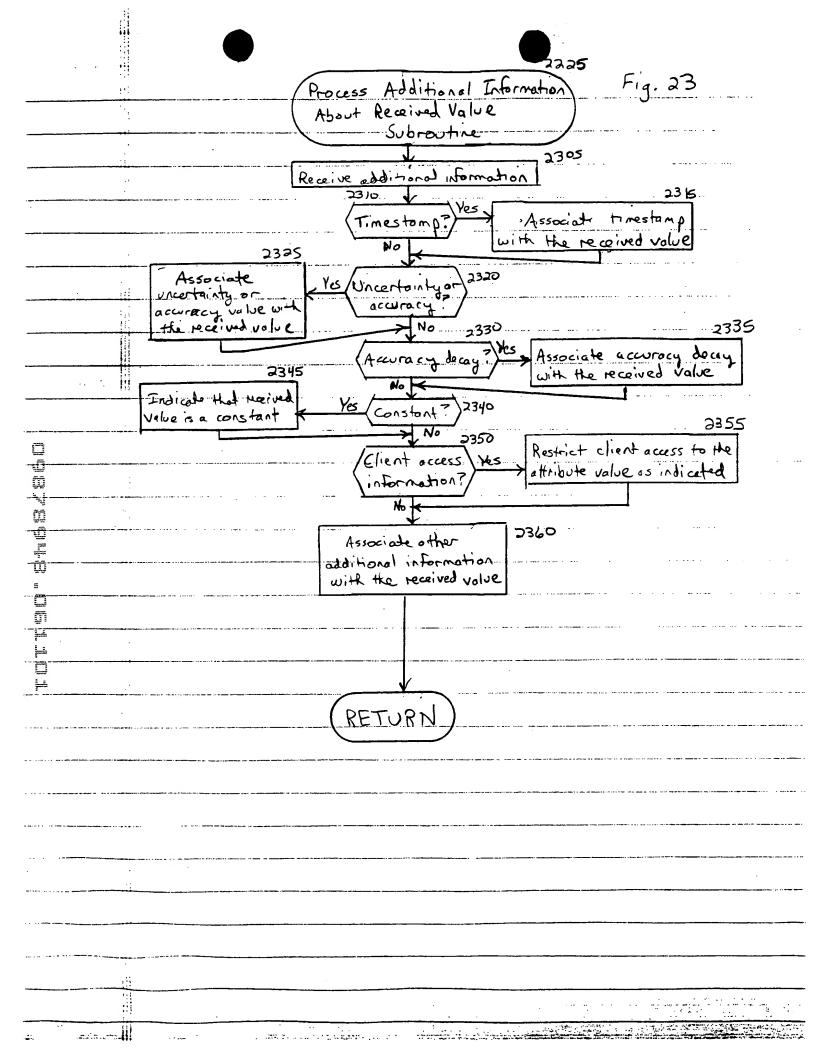


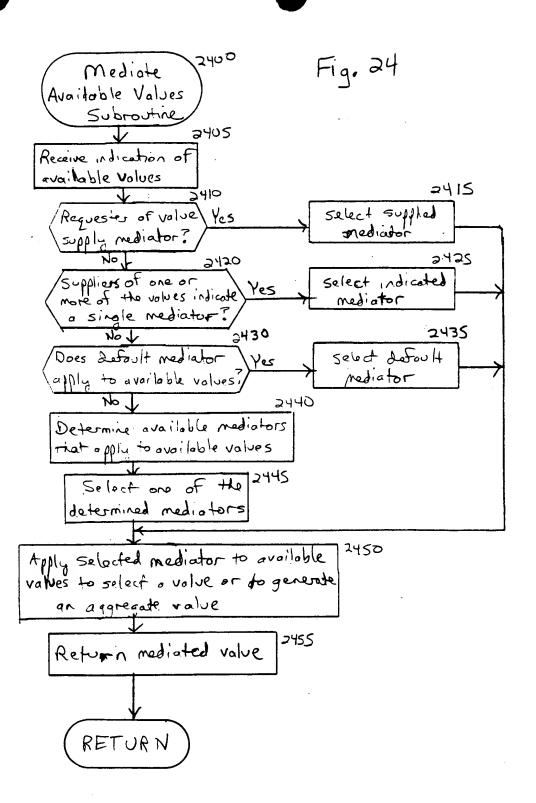












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